



1

SEQUENCE LISTING

<110> WANG, SHO-YA

<120> SCREEN FOR SODIUM CHANNEL MODULATORS

<130> 0794.047

<140> 10/608,584

<141> 2003-06-26

<160> 78

<170> PatentIn Ver. 3.2

<210> 1

<211> 28

<212> PRT

<213> Homo sapiens

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Tyr Met Ile Phe Phe Val Leu Val Ile Phe Leu Gly Ser Phe Tyr Leu  
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Ile Asn Leu Ile Leu Ala Val Val Ala Met Ala Tyr  
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<211> 28

<212> PRT

<213> Homo sapiens

<400> 2

Tyr Met Ile Phe Phe Val Leu Val Ile Phe Leu Gly Ser Phe Tyr Leu  
1 5 10 15

Ile Asn Leu Ile Leu Ala Val Val Ala Met Ala Tyr  
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<210> 3

<211> 28

<212> PRT

<213> Homo sapiens

<400> 3

Tyr Met Ile Phe Phe Val Leu Val Ile Phe Leu Gly Ser Phe Tyr Leu  
1 5 10 15

Ile Asn Leu Ile Leu Ala Val Val Ala Met Ala Tyr  
20 25

<210> 4  
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<400> 4  
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<210> 5  
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<400> 5  
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 Val Asn Leu Ile Leu Ala Val Val Ala Met Ala Tyr  
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<400> 6  
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 Val Asn Leu Ile Leu Ala Val Val Ala Met Ala Tyr  
                   20                  25

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<400> 7  
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<210> 8  
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<400> 8  
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<400> 9  
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 Val Asn Leu Ile Leu Ala Val Val Ala Met Ala Tyr  
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 Val Asn Leu Ile Leu Ala Val Val Ala Met Ala Tyr  
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<210> 11  
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 <213> Rattus sp.

<400> 11  
 Tyr Met Val Phe Phe Val Val Val Ile Phe Leu Gly Ser Phe Tyr Leu  
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 Val Asn Leu Ile Leu Ala Val Val Ala Met Ala Tyr  
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<210> 12  
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<400> 12  
 Tyr Met Val Phe Phe Met Leu Val Ile Phe Leu Gly Ser Phe Tyr Leu  
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                   20                  25

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 <213> Homo sapiens

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 Cys Leu Thr Val Phe Met Met Val Met Val Ile Gly Asn Leu Val Val  
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<210> 14  
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 <213> Homo sapiens

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 Cys Leu Thr Val Phe Met Met Val Met Val Ile Gly Asn Leu Val Val  
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 Cys Leu Ile Val Phe Met Leu Val Met Val Ile Gly Asn Leu Val Val  
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<210> 16  
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 <213> Homo sapiens

<400> 16  
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Leu Asn Leu Phe Leu Ala Leu Leu Leu Ser Ser Phe  
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<210> 17  
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<400> 17  
 Cys Leu Thr Val Phe Leu Met Val Met Val Ile Gly Asn Leu Val Val  
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Leu Asn Leu Phe Leu Ala Leu Leu Leu Ser Ser Phe  
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<210> 18  
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<400> 18  
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Leu Asn Leu Phe Leu Ala Leu Leu Leu Ser Ser Phe  
                   20                  25

<210> 19  
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<400> 19  
 Met Tyr Leu Tyr Phe Val Ile Phe Ile Ile Phe Gly Ser Phe Phe Thr  
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Leu Asn Leu Phe Ile Gly Val Ile Ile Asp Asn Phe  
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<210> 20  
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 <212> PRT  
 <213> Homo sapiens

<400> 20  
 Met Tyr Leu Tyr Phe Val Ile Phe Ile Ile Phe Gly Ser Phe Phe Thr  
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 Leu Asn Leu Phe Ile Gly Val Ile Ile Asp Asn Phe  
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<210> 21  
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 <213> Homo sapiens

<400> 21  
 Met Tyr Leu Tyr Phe Val Ile Phe Ile Ile Phe Gly Ser Phe Phe Thr  
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 Leu Asn Leu Phe Ile Gly Val Ile Ile Asp Asn Phe  
                   20                  25

<210> 22  
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<400> 22  
 Met Tyr Leu Tyr Phe Val Ile Phe Ile Ile Phe Gly Ser Phe Phe Thr  
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 Leu Asn Leu Phe Ile Gly Val Ile Ile Asp Asn Phe  
                   20                  25

<210> 23  
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<400> 23  
 Met Tyr Ile Tyr Phe Val Ile Phe Ile Ile Phe Gly Ser Phe Phe Thr  
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 Leu Asn Leu Phe Ile Gly Val Ile Ile Asp Asn Phe  
                   20                  25

<210> 24  
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<400> 24  
 Met Tyr Leu Tyr Phe Val Ile Phe Ile Ile Gly Gly Ser Phe Phe Thr  
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 Leu Asn Leu Phe Val Gly Val Ile Ile Asp Asn Phe  
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<210> 25  
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<400> 25  
 Met Tyr Leu Tyr Phe Val Ile Phe Ile Ile Phe Gly Ser Phe Phe Thr  
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<400> 26  
 Met Tyr Ile Tyr Phe Val Val Phe Ile Ile Phe Gly Ser Phe Phe Thr  
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 Leu Asn Leu Phe Ile Gly Val Ile Ile Asp Asn Phe  
                     20                    25

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<400> 27  
 Met Tyr Leu Tyr Phe Val Val Phe Ile Ile Phe Gly Ser Phe Phe Thr  
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 Leu Asn Leu Phe Ile Gly Val Ile Ile Asp Asn Phe  
                     20                    25

<210> 28  
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<400> 28  
 Met Tyr Ile Tyr Phe Val Val Phe Ile Ile Phe Gly Gly Phe Phe Thr  
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 Leu Asn Leu Phe Val Gly Val Ile Ile Asp Asn Phe  
                     20                    25

<210> 29  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 29  
 Gly Ile Phe Phe Phe Val Ser Tyr Ile Ile Ile Ser Phe Leu Val Val  
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 Val Asn Met Tyr Ile Ala Val Ile Leu Glu Asn Phe  
                     20                    25

<210> 30  
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<400> 30  
 Gly Ile Phe Phe Phe Val Ser Tyr Ile Ile Ile Ser Phe Leu Val Val  
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 Val Asn Met Tyr Ile Ala Val Ile Leu Glu Asn Phe  
                     20                    25

<210> 31  
 <211> 28  
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 <213> Homo sapiens

<400> 31  
 Gly Ile Phe Phe Phe Val Ser Tyr Ile Ile Ile Ser Phe Leu Val Val  
     1                    5                    10                    15  
 Val Asn Met Tyr Ile Ala Val Ile Leu Glu Asn Phe  
                     20                    25



<210> 32  
 <211> 28  
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<400> 32  
 Gly Ile Cys Phe Phe Cys Ser Tyr Ile Ile Ile Ser Phe Leu Ile Val  
     1                    5                    10                    15  
 Val Asn Met Tyr Ile Ala Ile Ile Leu Glu Asn Phe  
                     20                    25

<210> 33  
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 <213> Homo sapiens

<400> 33  
 Gly Ile Leu Phe Phe Thr Thr Tyr Ile Ile Ile Ser Phe Leu Ile Val  
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 Val Asn Met Tyr Ile Ala Ile Ile Leu Glu Asn Phe  
                     20                    25

<210> 34  
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 <212> PRT  
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<400> 34  
 Gly Ile Cys Phe Phe Cys Ser Tyr Ile Ile Ile Ser Phe Leu Ile Val  
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 Val Asn Met Tyr Ile Ala Ile Ile Leu Glu Asn Phe  
                     20                    25

<210> 35  
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<400> 35  
 Gly Ile Leu Phe Phe Thr Thr Tyr Ile Ile Ile Ser Phe Leu Ile Val  
     1                    5                    10                    15  
 Val Asn Met Tyr Ile Ala Ile Ile Leu Glu Asn Phe  
                     20                    25

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<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 36  
Trp Ile Leu Ala Val Val Ala Met Ala Tyr  
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<210> 37  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 37  
Tyr Ile Leu Ala Val Val Ala Met Ala Tyr  
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<210> 38  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 38  
Phe Ile Leu Ala Val Val Ala Met Ala Tyr  
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<210> 39  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 39  
Leu Ile Leu Trp Val Val Ala Met Ala Tyr  
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<210> 40  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 peptide

<400> 40  
 Leu Ile Leu Tyr Val Val Ala Met Ala Tyr  
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<210> 41  
 <211> 10  
 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence: Synthetic  
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<400> 41  
 Leu Ile Leu Phe Val Val Ala Met Ala Tyr  
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<210> 42  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
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<400> 42  
 Leu Ile Cys Trp Val Val Ala Met Ala Tyr  
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<210> 43  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
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<400> 43

Leu Ile Cys Tyr Val Val Ala Met Ala Tyr  
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<210> 44

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 44

Leu Ile Cys Phe Val Val Ala Met Ala Tyr  
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<210> 45

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
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<400> 45

Trp Ile Cys Trp Val Val Ala Met Ala Tyr  
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<210> 46

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
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<400> 46

Tyr Ile Cys Tyr Val Val Ala Met Ala Tyr  
1 5 10

<210> 47

<211> 10

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 47

Phe Ile Cys Phe Val Val Ala Met Ala Tyr  
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<210> 48

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 48

Trp Ile Cys Tyr Val Val Ala Met Ala Tyr  
1 5 10

<210> 49

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 49

Trp Ile Cys Phe Val Val Ala Met Ala Tyr  
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<210> 50

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 50

Tyr Ile Cys Trp Val Val Ala Met Ala Tyr  
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<210> 51  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
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<400> 51  
Phe Ile Cys Trp Val Val Ala Met Ala Tyr  
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<210> 52  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 52  
Tyr Ile Cys Tyr Val Val Ala Met Ala Tyr  
1 5 10

<210> 53  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 53  
Phe Ile Cys Phe Val Val Ala Met Ala Tyr  
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<210> 54  
<211> 10  
<212> PRT  
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<220>

<223> Description of Artificial Sequence: Synthetic  
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<400> 54  
Tyr Ile Cys Phe Val Val Ala Met Ala Tyr  
1 5 10

<210> 55  
<211> 10  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
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<400> 55  
Phe Ile Cys Tyr Val Val Ala Met Ala Tyr  
1 5 10

<210> 56  
<211> 10  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 56  
Leu Ile Trp Ala Val Trp Ala Met Ala Tyr  
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<210> 57  
<211> 10  
<212> PRT  
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<220>  
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Leu Ile Tyr Ala Val Trp Ala Met Ala Tyr  
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<210> 58  
<211> 10  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 58

Leu Ile Phe Ala Val Trp Ala Met Ala Tyr  
1 5 10

<210> 59

<211> 10

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 59

Leu Ile Leu Ala Val Trp Ala Met Ala Tyr  
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<210> 60

<211> 10

<212> PRT

<213> Artificial Sequence

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<400> 60

Met Tyr Ile Ala Trp Ile Leu Glu Asn Phe  
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<210> 61

<211> 10

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
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<400> 61

Met Tyr Ile Ala Tyr Ile Leu Glu Asn Phe  
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<210> 62

<211> 10

<212> PRT

<213> Artificial Sequence



<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 62

Met Tyr Ile Ala Phe Ile Leu Glu Asn Phe  
1 5 10

<210> 63

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 63

Met Tyr Ile Ala Ile Trp Leu Glu Asn Phe  
1 5 10

<210> 64

<211> 10

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 64

Met Tyr Ile Ala Ile Tyr Leu Glu Asn Phe  
1 5 10

<210> 65

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 65

Met Tyr Ile Ala Ile Phe Leu Glu Asn Phe  
1 5 10

<210> 66  
<211> 10  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 66  
Met Tyr Ile Ala Cys Ile Leu Glu Asn Phe  
1 5 10

<210> 67  
<211> 10  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 67  
Met Tyr Ile Ala Ile Cys Leu Glu Asn Phe  
1 5 10

<210> 68  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 68  
Met Tyr Ile Ala Trp Trp Leu Glu Asn Phe  
1 5 10

<210> 69  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 69  
Met Tyr Ile Ala Tyr Tyr Leu Glu Asn Phe  
1 5 10

<210> 70  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
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 peptide

<400> 70  
 Met Tyr Ile Ala Phe Phe Leu Glu Asn Phe  
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<210> 71  
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 <213> Artificial Sequence

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 <223> Val or Met

<220>  
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 <222> (7)  
 <223> Leu or Val

<220>  
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 <222> (8)  
 <223> Ile or Val

<220>  
 <221> MOD\_RES  
 <222> (17)  
 <223> Ile or Val

<400> 71  
 Tyr Met Ile Phe Phe Xaa Xaa Xaa Ile Phe Leu Gly Ser Phe Tyr Leu  
           1                  5                  10                  15

Xaa Asn

<210> 72  
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 <212> PRT  
 <213> Artificial Sequence

<220>  
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 amino acid sequence

<400> 72  
 Tyr Met Ile Phe Phe Met Leu Val Ile Phe Leu Gly Ser Phe Tyr Leu  
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 Val Asn Trp Ile Leu Ala Val Val Ala Met Ala Tyr  
                     20                    25

<210> 73  
 <211> 39  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 primer

<400> 73  
 ctcacatc tgatctgctg ggtggtggcc atggcgtag 39

<210> 74  
 <211> 40  
 <212> DNA  
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<220>  
 <223> Description of Artificial Sequence: Synthetic  
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<400> 74  
 ctcacatc tggatctgct ggtggtggc catggcgtag 40

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 <212> DNA  
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<212> DNA  
<213> Artificial Sequence

<220>  
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primer

<400> 76  
gctctttcta cctcatcaat tggatctgct gggtggtggc catggcatat gc 52

<210> 77  
<211> 37  
<212> DNA  
<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
primer

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cctggtgaac ctgatctgct gggtggtcgc aatggcc 37

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<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
primer

<400> 78  
ccttctacct ggtgaactgg atctgctggg 30